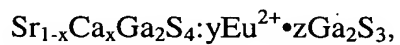


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A B S T R A C T

Provided, among other things, is a strontium calcium thiogallate phosphor doped with divalent europium, and having the following formula:



where x is 0.0001 to 1, y is a value defining sufficient Eu^{2+} to provide luminescent emission, and z is 0.0001 to 0.2 based on the mole amount of $\text{Sr}_{1-x}\text{Ca}_x\text{Ga}_2\text{S}_4:y\text{Eu}^{2+}$.